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CLAIMS

- 1. Supply generator for an oscillatory circuit comprising an inductor (L) and a resonant capacitor (C_3 , C_4) adapted to operate at a fixed frequency and comprising at least one pair of transistors (I_1 , I_2) controlled at a variable duty cycle (δ) to modify the power, characterized in that it comprises a first diode (D_5) between a first transistor (I_2) of said pair and the supply of said generator and a second diode (D_4) between the connection point of the inductor (L) and the resonant capacitor (C_3 , C_4) and the connection point of said first transistor (I_2) and said first diode (D_5).
- 2. Generator according to claim 1, characterized in that said transistors $(I_1,\ I_2)$ are associated with diodes $(D_1,\ D_2)$ and capacitors $(C_1,\ C_2)$ adapted to operate said generator in a soft switching mode.
- 3. Generator according to claim 2, characterized in that it is adapted to switch at the zero crossing of the voltage.
- 4. Generator according to any one of claims 1 to 3, characterized in that it comprises a third diode (D_6) between a second transistor (I_1) of said pair and the supply of said generator and a fourth diode (D_3) between the connection point of the inductor (L) and the resonant capacitor $(C_3,\ C_4)$ and the connection point of said second transistor (I_1) and said third diode (D_6) .
 - 5. Set of supply generators according to any one of claims 1 to 4, characterized in that said generators are synchronized in frequency and controlled at different duty cycles $(\delta_1,\ \delta_2,\ \dots\ \delta_n)$.
 - 6. Induction cooking hob comprising a plurality of inductors adapted to constitute one or more cooking rings, characterized in that said inductors are associated with respective supply generators according to any one of claims 1 to 4, said generators being synchronized in frequency and

adapted to be controlled independently of each other with a variable duty cycle.